

Figure 1. Torque vs. Time Chart for Reactive Extrusion of PHBV with HEMA

TQ: 0-20 Nm

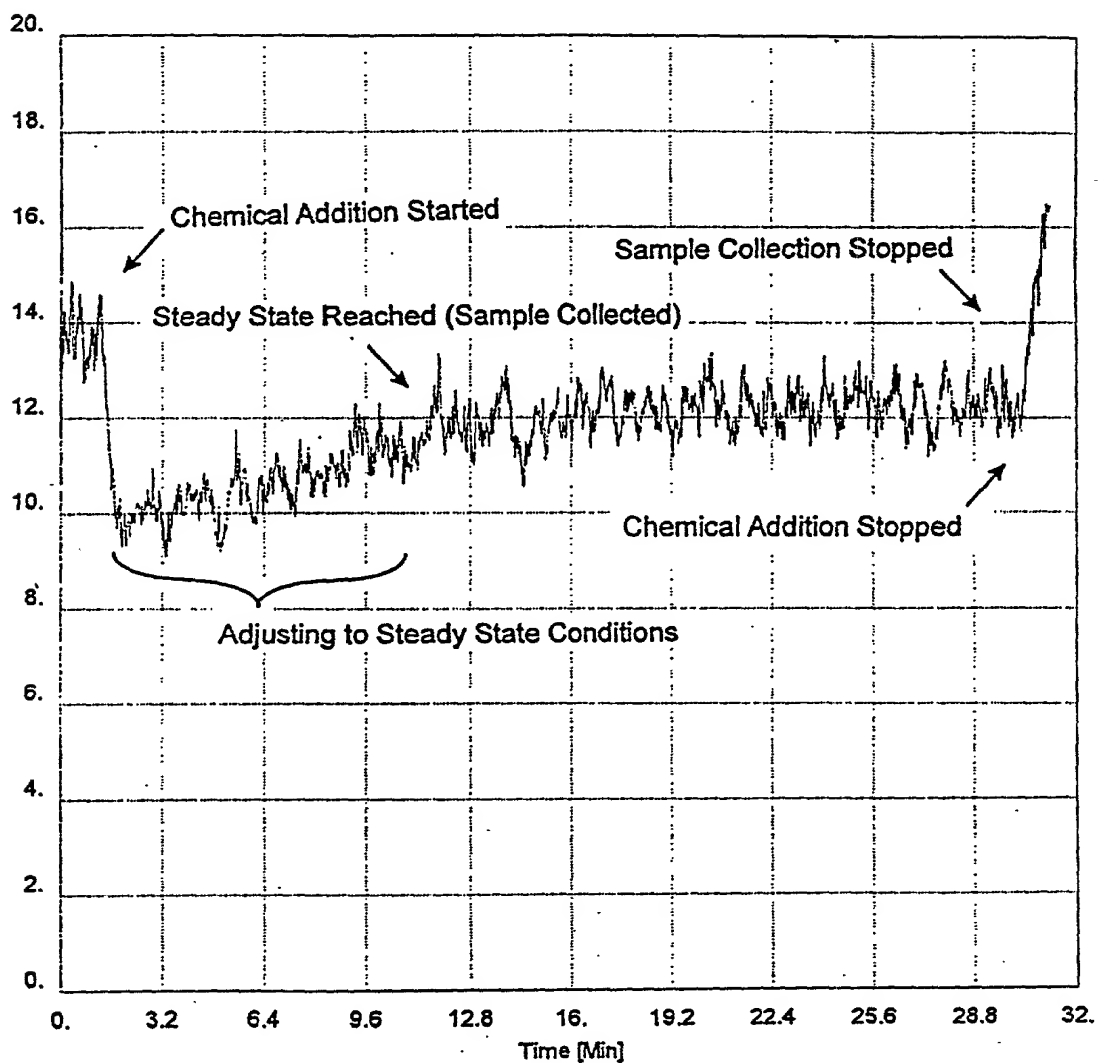
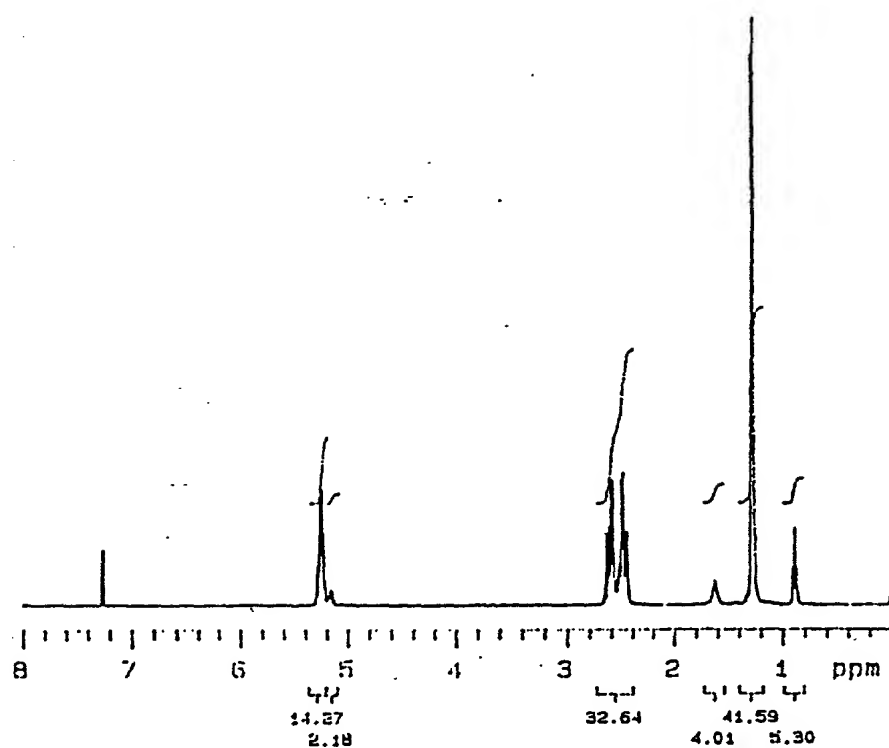
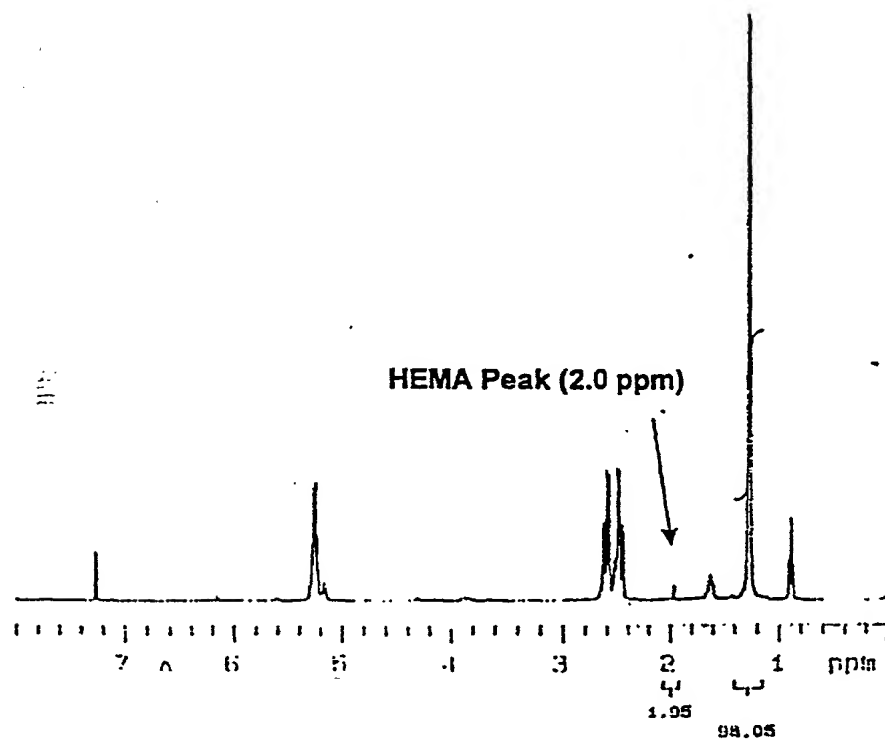


Figure 2. Proton NMR Spectra for PHBV and HEMA Grafted PHBV



PHBV



HEMA Grafted PHB

Figure 3 Melt Rheology at 180°C for PHBV and HEMA Grafted PHBV

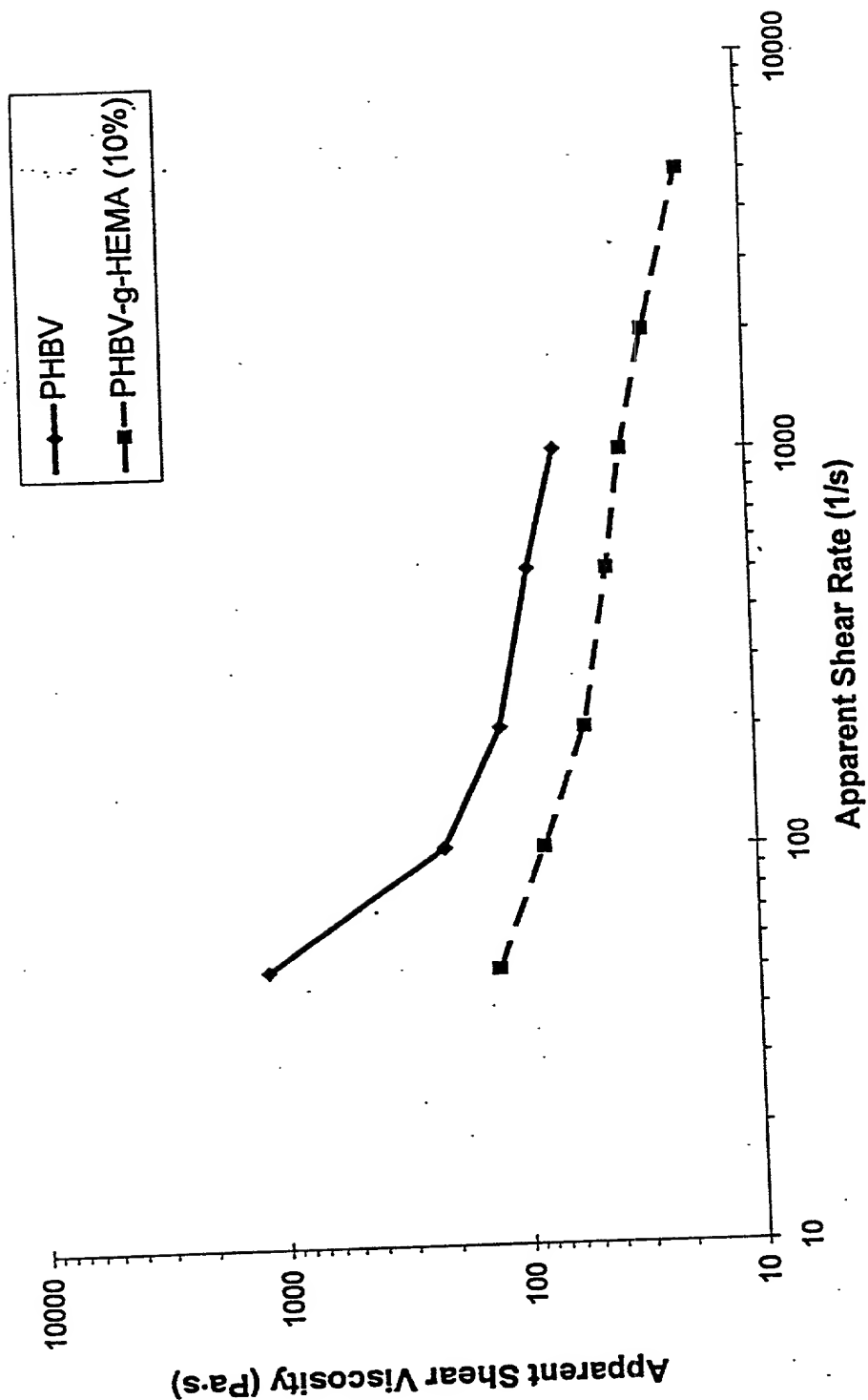
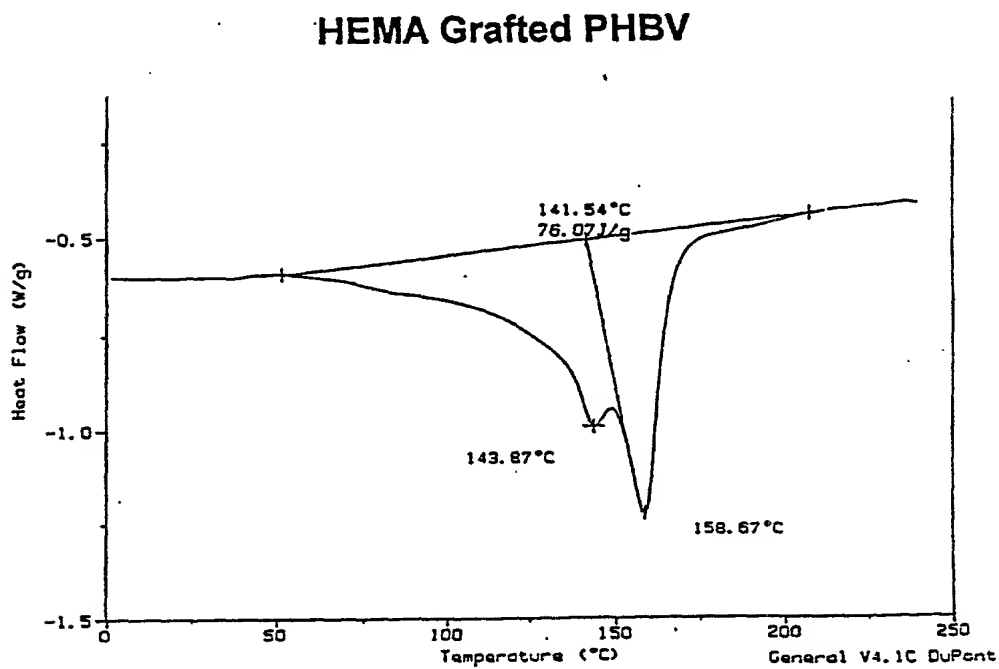
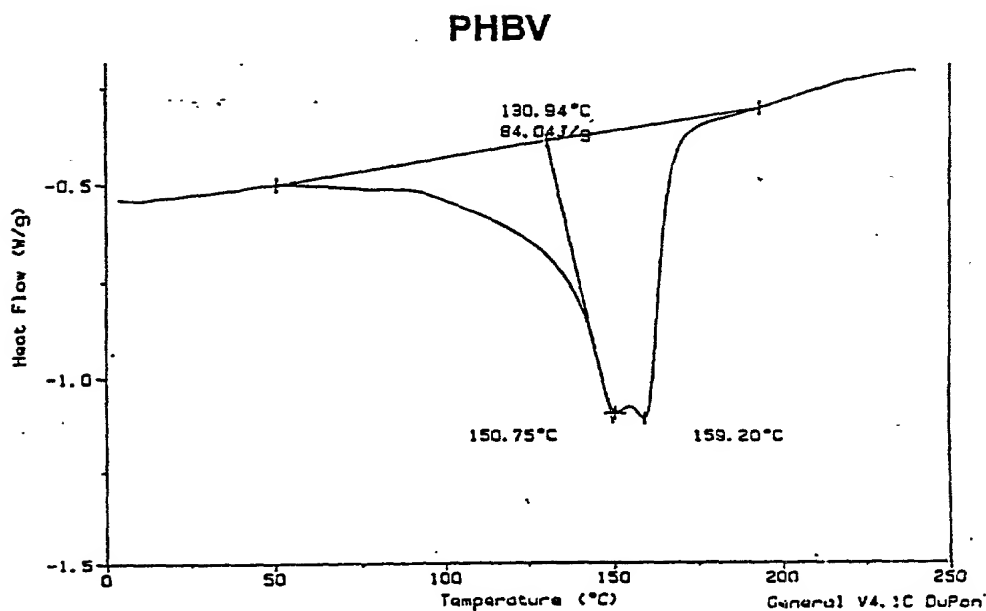


Figure 4 DSC Thermogram for PHBV and HEMA Grafted PHBV



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Figure 5 Torque vs. Time Chart for Reactive Extrusion of PBS 1040 with PEGMA on the Haake Extruder

TQ: 0-1500 m-g

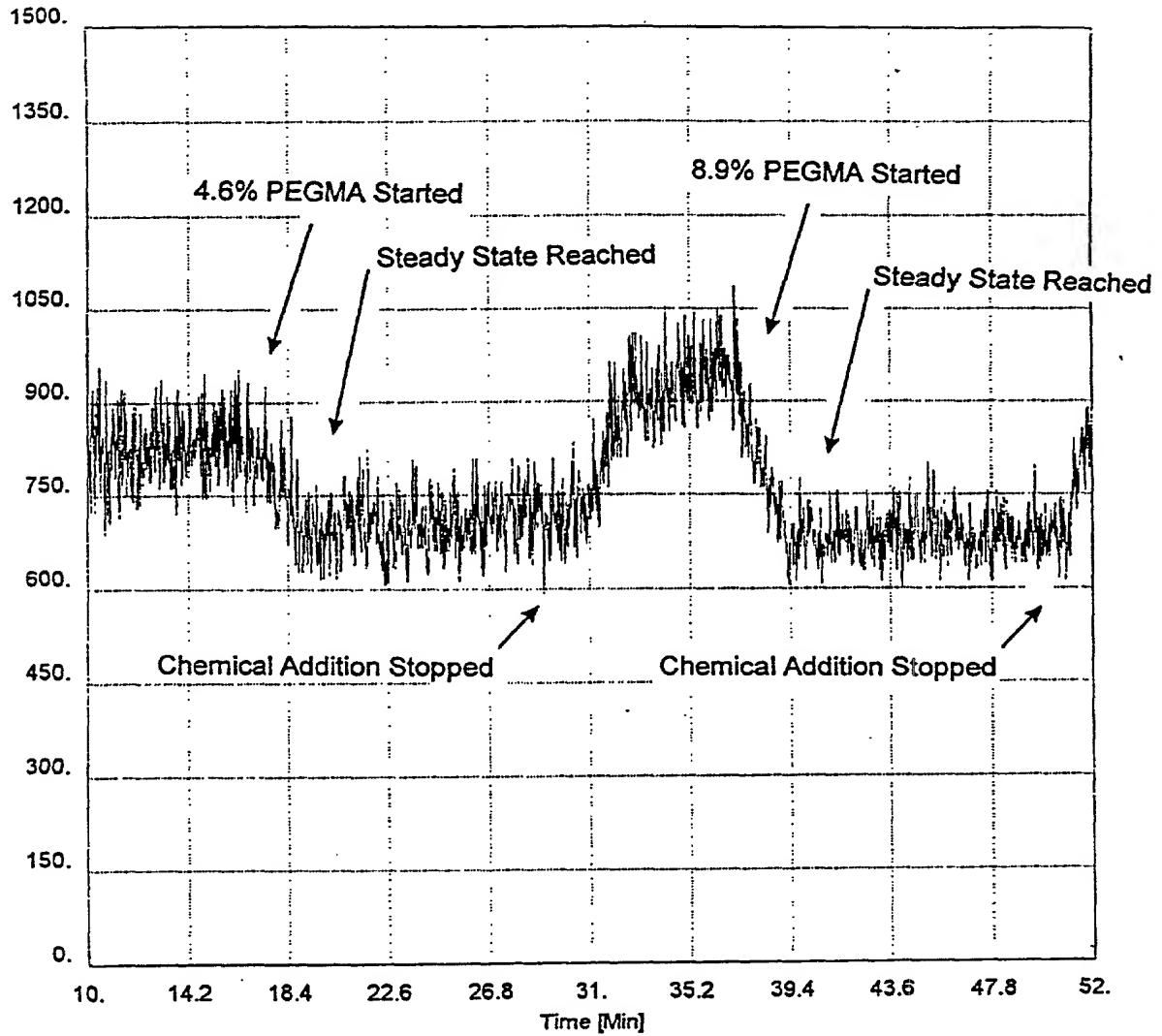


Figure 6 Proton NMR Spectra for PBS and PEGMA Grafted PBS 1040

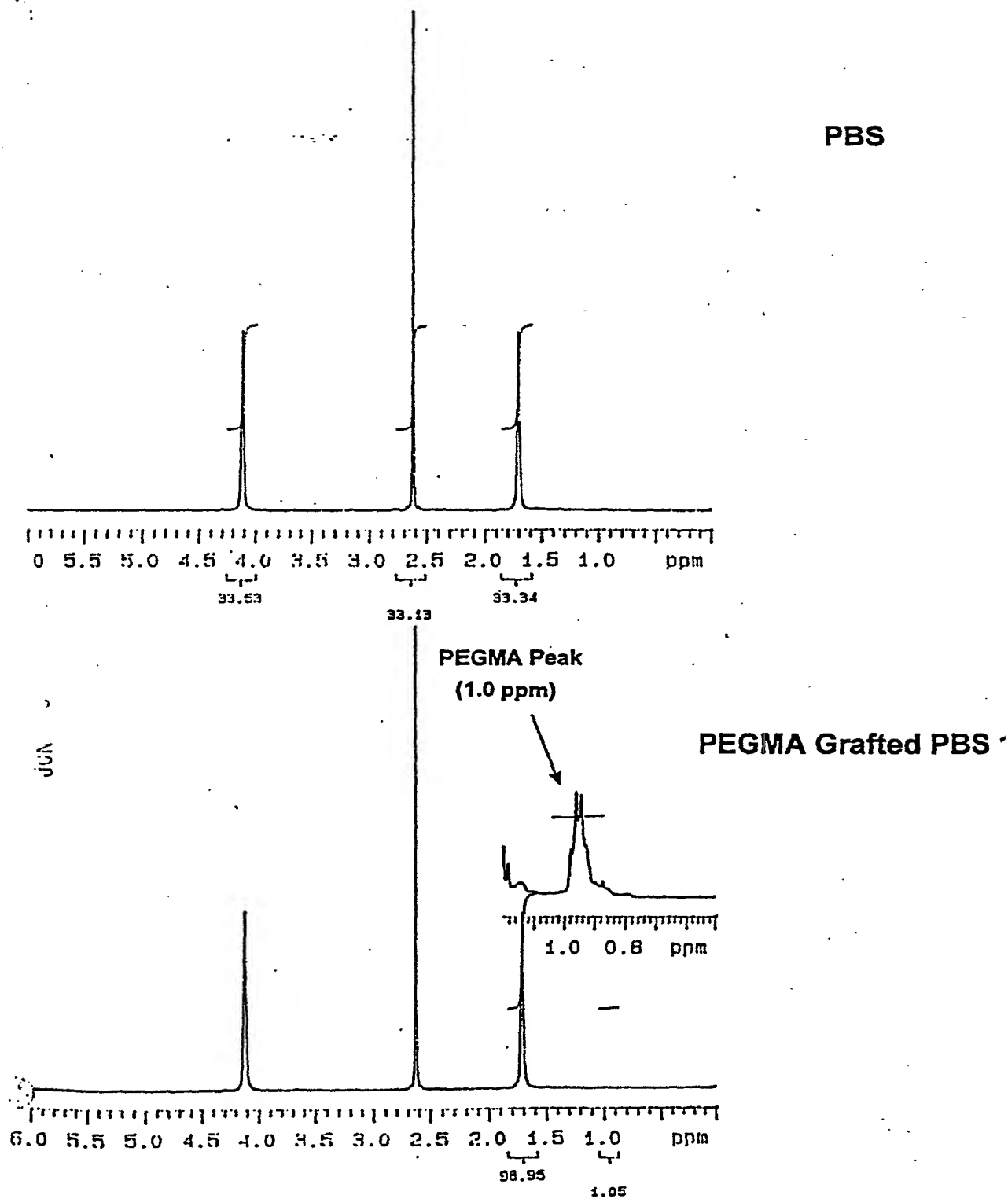


Figure 7 Melt Rheology at 180°C for PBS and PEGMA Grafted PBS (Bionolle® 1040)

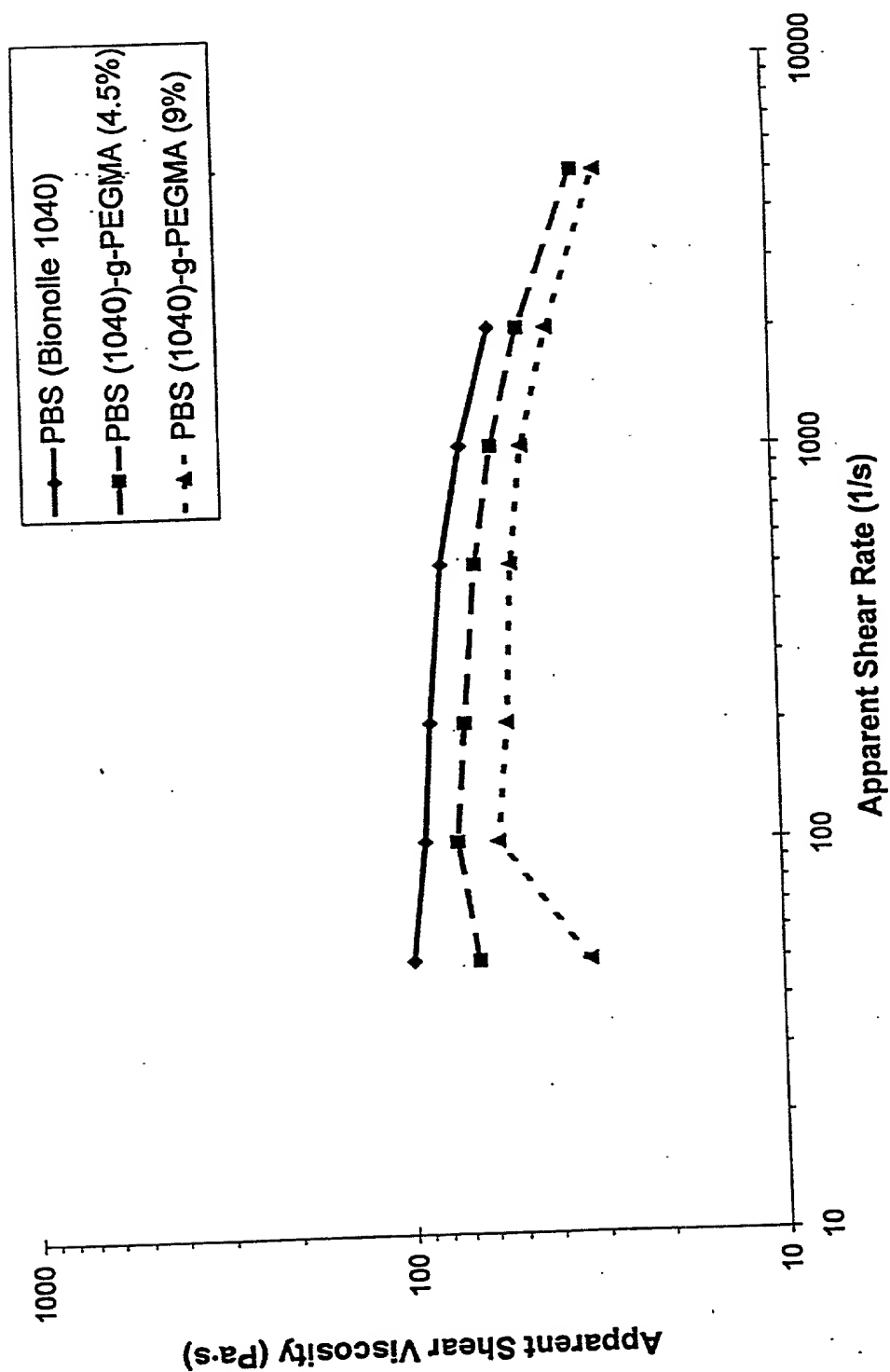


Figure 8 Melt Rheology at 180°C for PBS and HEMA Grafted PBS (Bionolle® 1020)

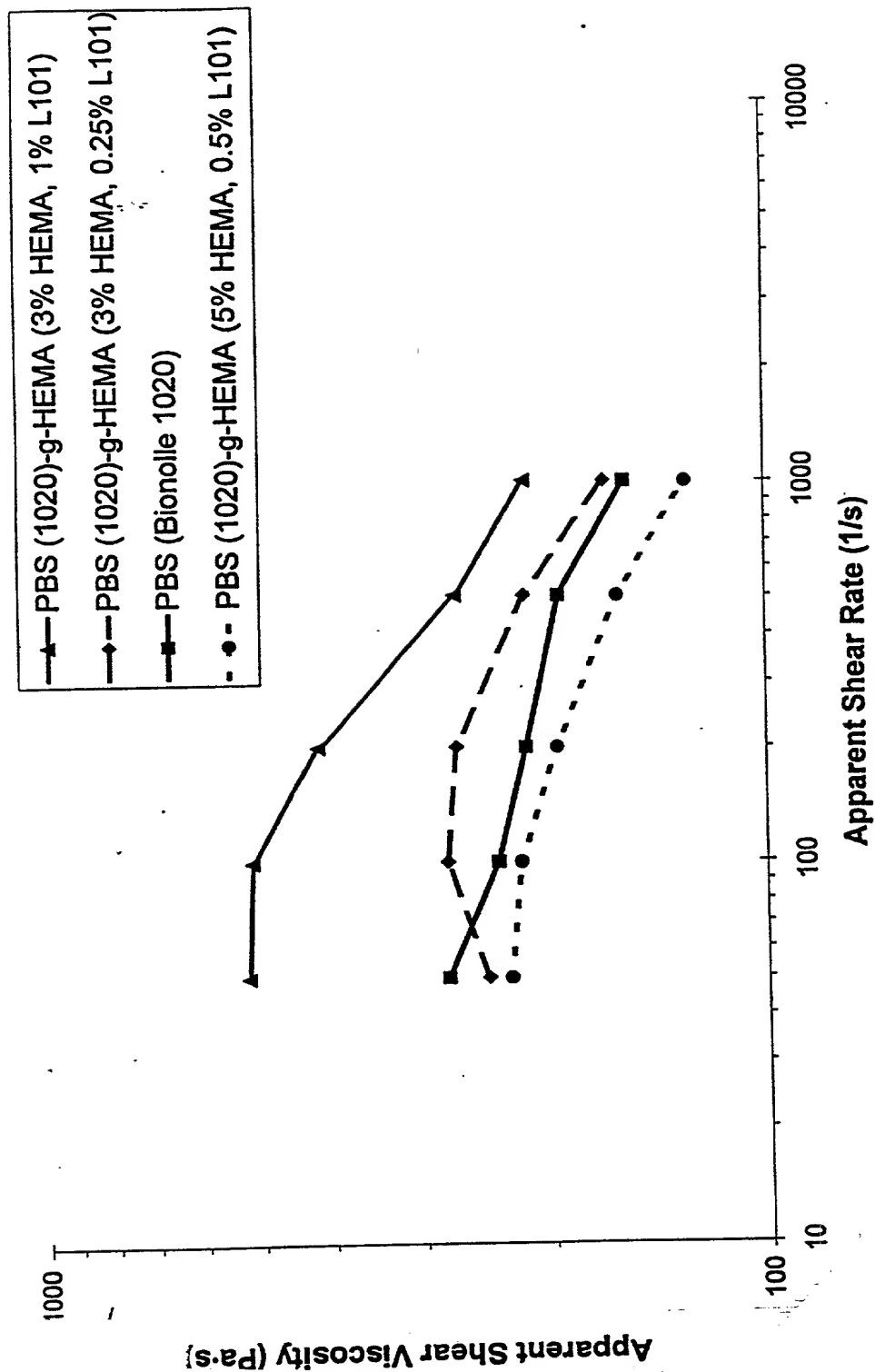


Figure 9 DSC Thermogram for PBS and PEGMA Grafted PBS 1040

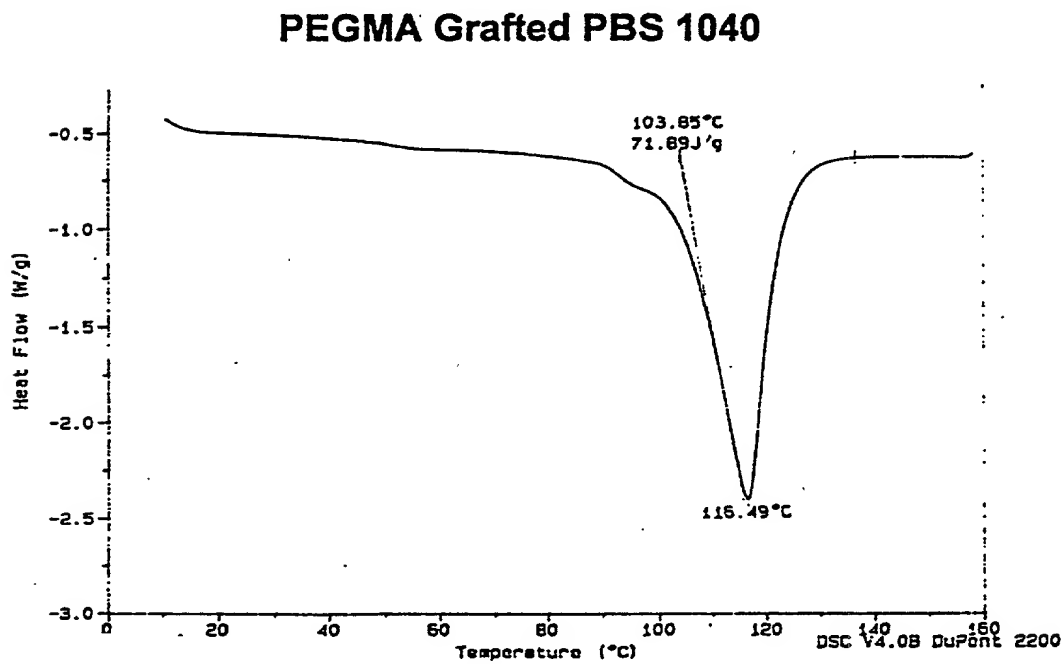
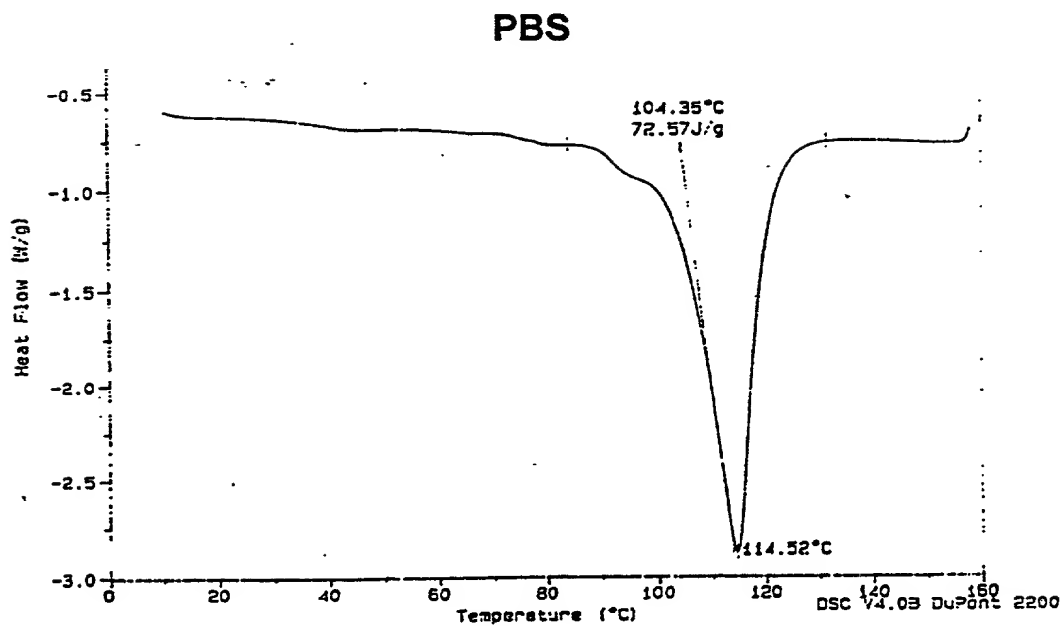


Figure 10 DSC Thermogram for PBS and HEMA Grafted PBS 1020

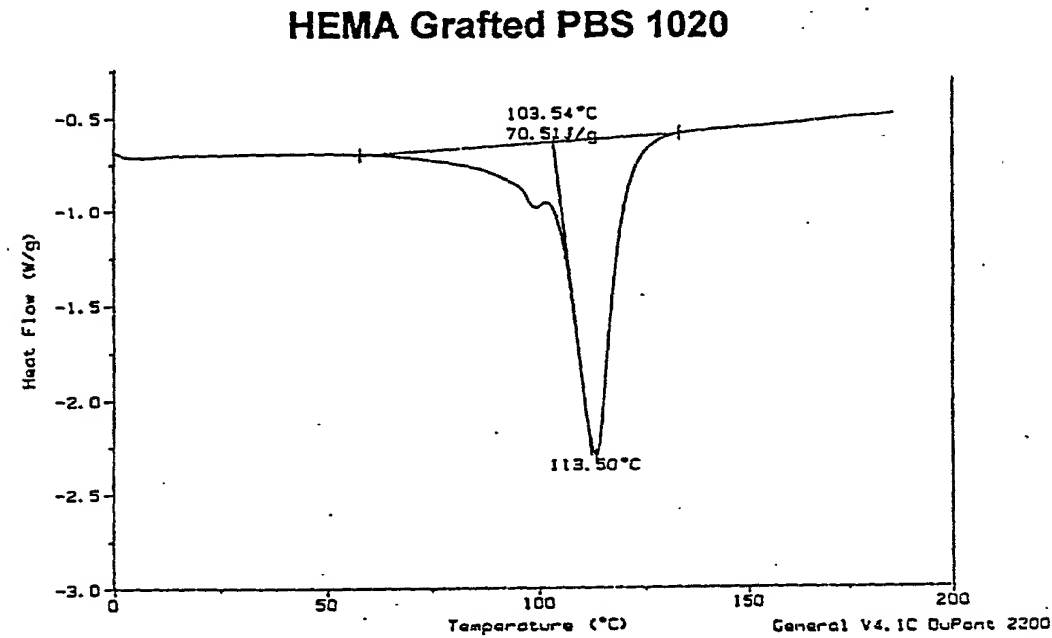
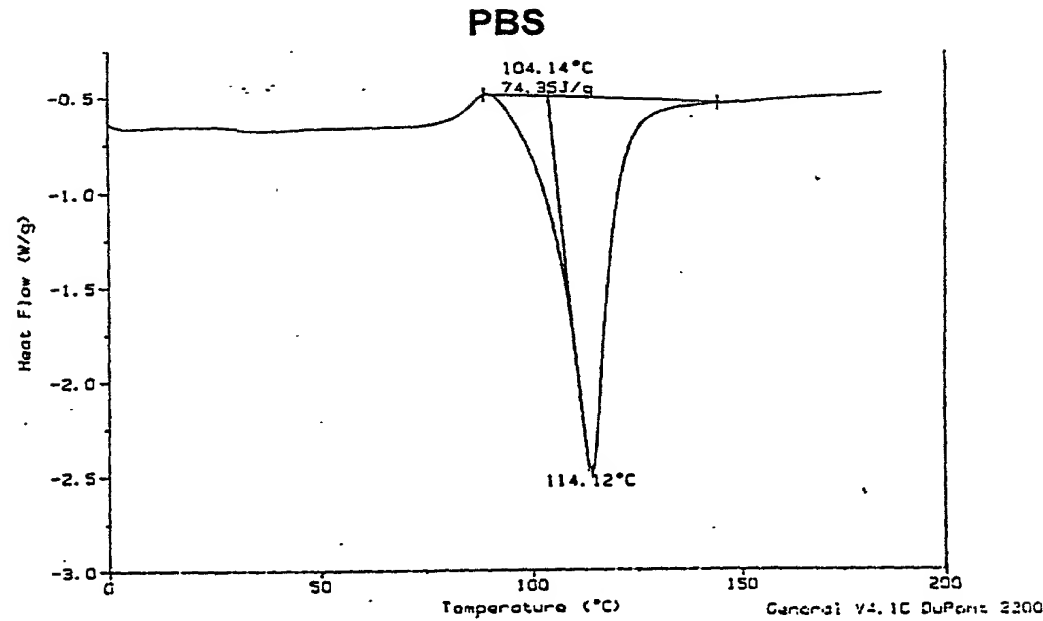


Figure 11

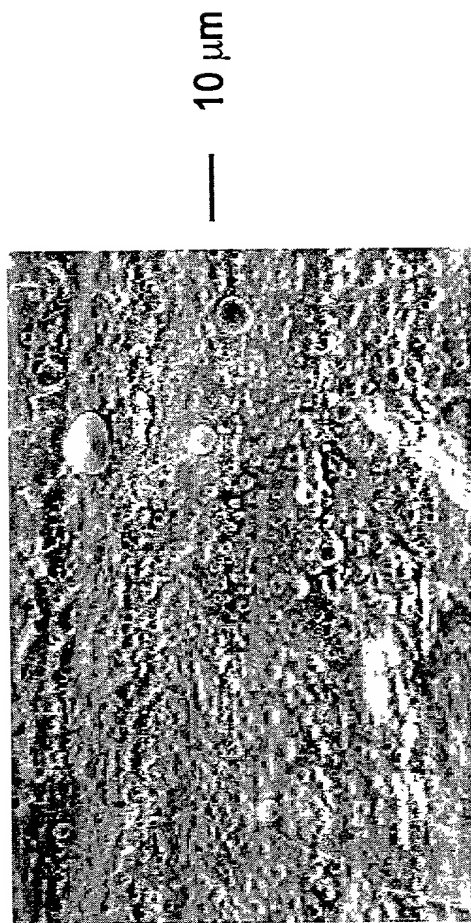


Figure 12

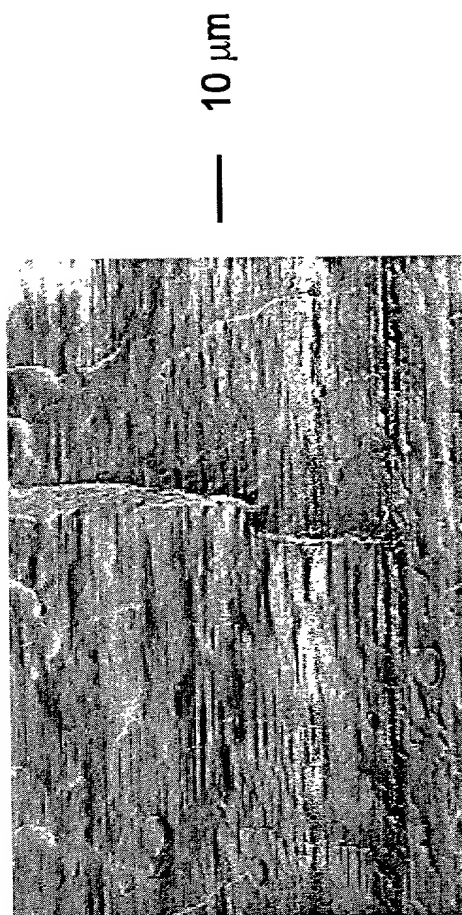
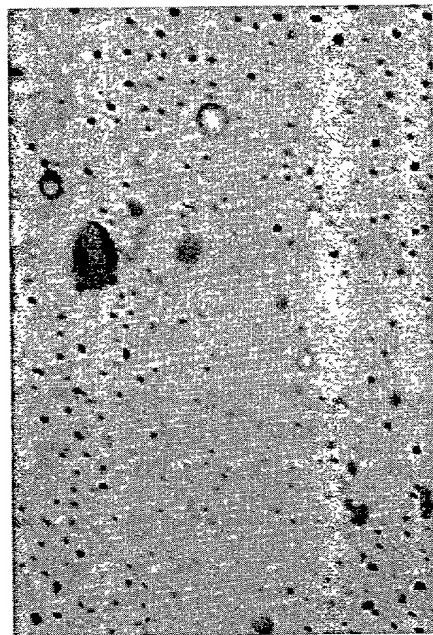


Figure 13



— 10 μ m

Figure 14

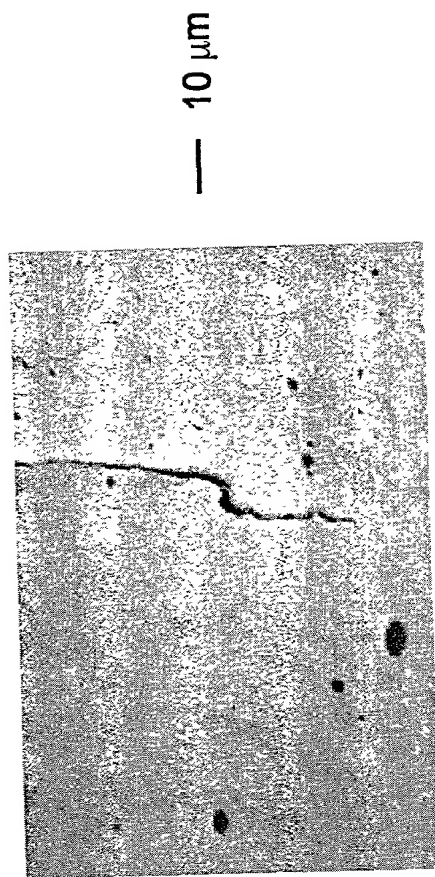


Figure 16

$\Delta T_m \approx T_m$ (PEO Phase of Physical Blends) - T_m (Reactive Blends)

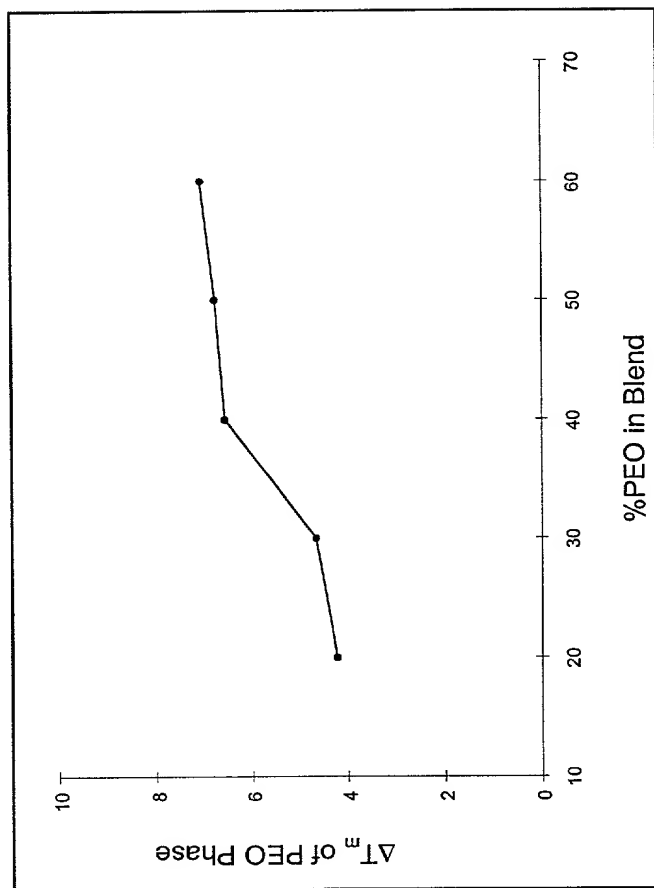
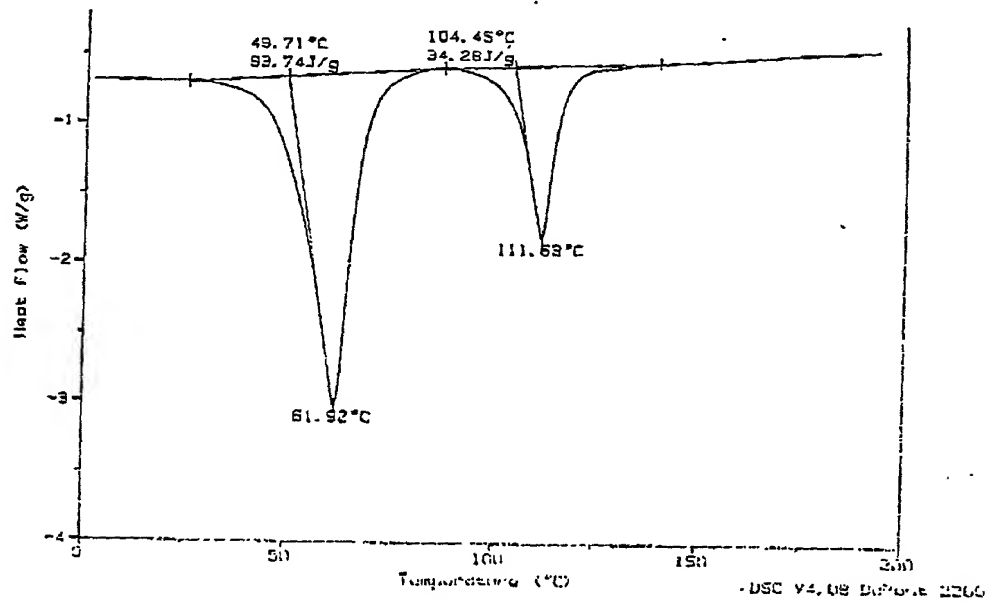
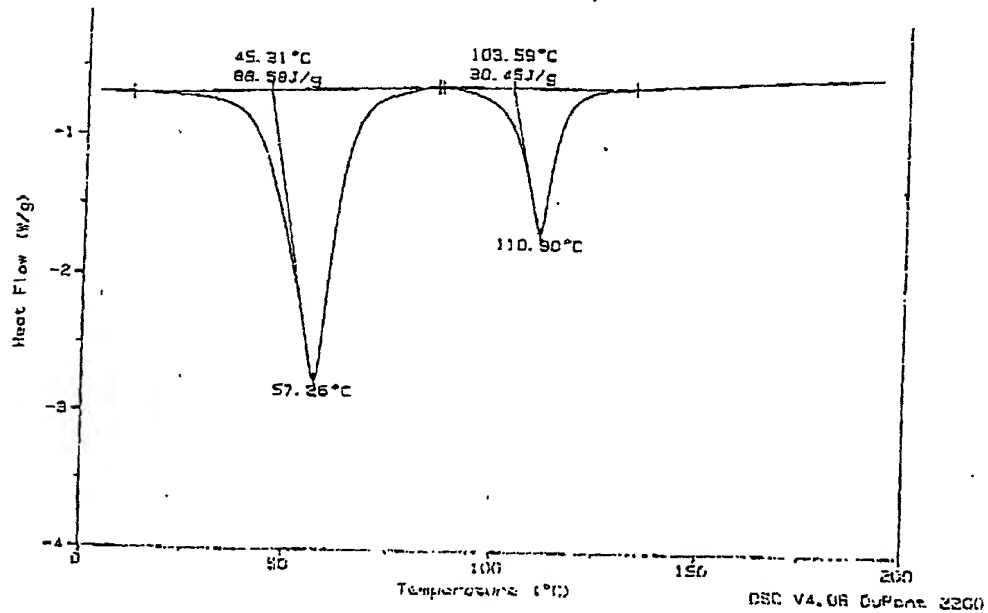


Figure 17 DSC Thermograms for PBS/PEO Physical and Reactive Blends

30/70 PBS/PEO Physical Blend



30/70 PBS/PEO Reactive Blend



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Figure 18 Melt Rheology at 195°C for PBS/PEO Physical and Reactive Blends

